

Abstract

An apparatus for providing a trusted channel among secure operating systems (OSs) to which a mandatory access control (MAC) policy is applied includes on a data transmission side a trusted channel sub system, a MAC module and a kernel memory. The apparatus further includes on a data reception side a trusted channel system and a kernel memory. By using the apparatus, the contents of data can be prevented from being exposed even in case the packet is intercepted while being transmitted since the packet is encrypted. Furthermore, even though the contents of the data packet are replaced with malicious contents, such modulation of data can be detected by examining the integrity of the packet through the use of authentication data.